



**National holding uniting enterprises of the defense-industrial complex of the Republic of Kazakhstan, engaged in production activities in the interests of the Ground Forces, Air Defense Forces, and Naval Forces.**

# STRUCTURE OF THE GROUP "NC "KAZAKHSTAN ENGINEERING" JSC

## PETROPAVLOVSK

«PLANT NAMED AFTER S.M. KIROV » JSC  
«PETROPAVLOVSK HEAVY ENGINEERING PLANT » JSC

## SEMEY

«SEMEY ENGINEERING»JSC

## KARAGANDA

«STEEL MANUFACTURING»LLP

## ASTANA

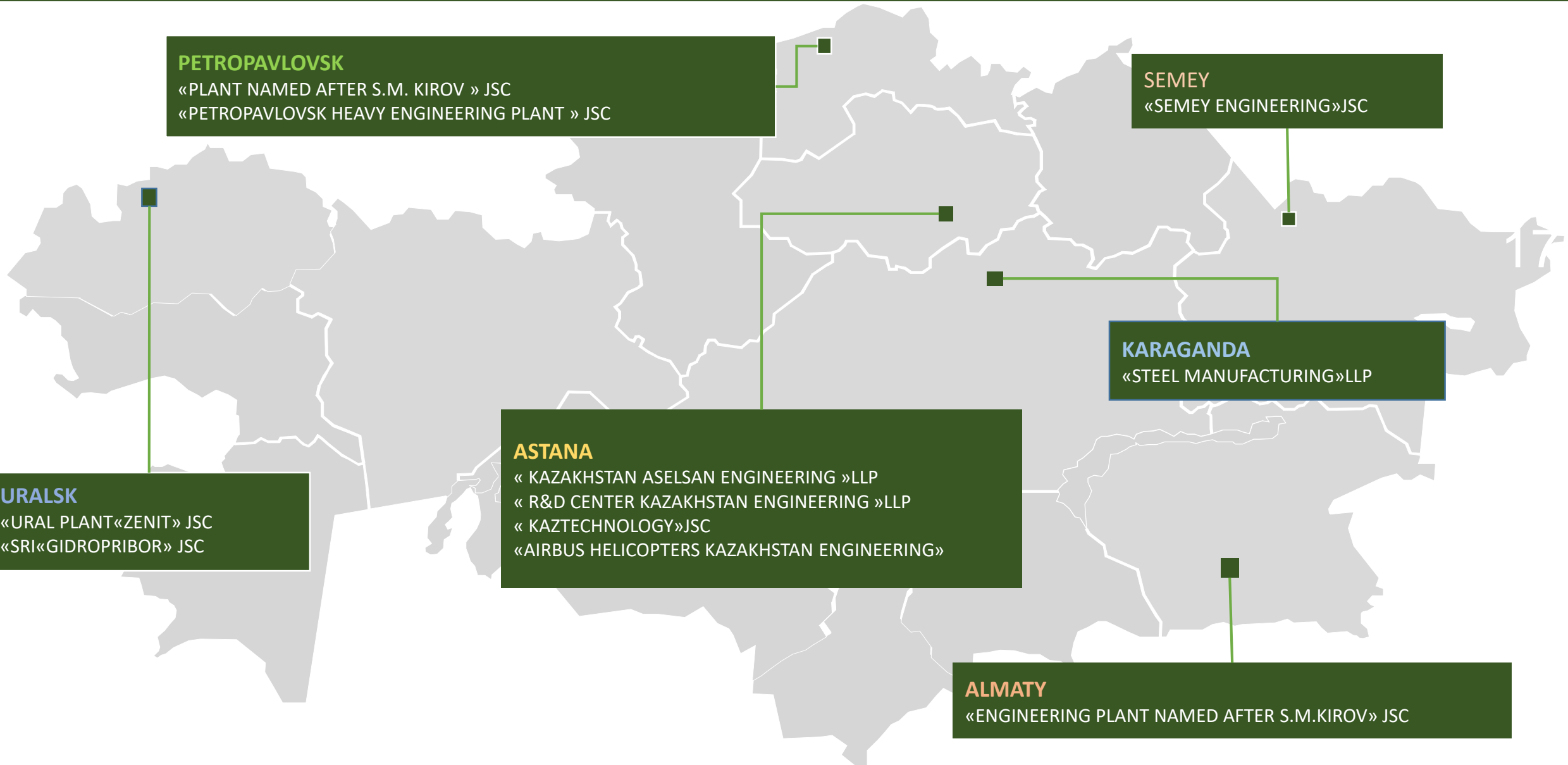
« KAZAKHSTAN ASELN ENGINEERING »LLP  
« R&D CENTER KAZAKHSTAN ENGINEERING »LLP  
« KAZTECHNOLOGY»JSC  
«AIRBUS HELICOPTERS KAZAKHSTAN ENGINEERING»

## ALMATY

«ENGINEERING PLANT NAMED AFTER S.M.KIROV» JSC

## URALSK

«URAL PLANT«ZENIT» JSC  
«SRI«GIDROPRIBOR» JSC







## MANUFACTURED PRODUCTS

- SERVICE, REPAIRMENT AND MODERNIZATION OF ARMORED VEHICLES (T-72, APC, BMP).
- REPAIRMENT OF SPECIAL EQUIPMENT (IMR-2 ON T-72 CHASSIS, BAT-2, BREM, EOY-4421 ON KRAZ CHASSIS, PTS-2);
- PRODUCTION OF COMPONENTS FOR MILITARY EQUIPMENT;
- PRODUCTION OF COMPONENTS FOR RAILWAYS (GONDOLA HATCH COVERS, LONGITUDINAL SIDES, END PLATFORM SIDES).

## PLANNED PRODUCTION

- ORGANIZATION OF LARGE-KNOT ASSEMBLY OF ARMORED PERSONNEL CARRIERS BTR-82A;
- ORGANIZATION OF LARGE-KNOT ASSEMBLY OF SPECIAL TRACKED FIRE-FIGHTING VEHICLE SPM;
- ORGANIZATION OF LICENSED LARGE-KNOT ASSEMBLY OF SBM «TIGER»;
- PRODUCTION OF SPECIAL-PURPOSE MAZ VEHICLES;
- MODERNIZATION OF THE TRACKED TRANSPORTER-TRACTOR GT-T (PRODUCTION OF A PROTOTYPE OF LIGHT- ARMORED GT-T INSTEAD OF MTLB);





## MANUFACTURED PRODUCTS

- VHF, KV RANGES RADIO-STATIONS
- CREATION OF ANTI-FIRE ROBOTS
- SUPPLY OF ACCESS CONTROL SYSTEMS (ZIK-SCUD)
- SUPPLY OF HIGHWAY MEDICAL AND RESCUE STATIONS
- FIELD EQUIPMENT
- PRODUCTION OF COMPUTERS, LAPTOPS, TABLETS;
- PRODUCTION OF MULTILAYER PRINTED CIRCUIT BOARDS;
- MODERNIZATION OF MOBILE RADIO RELAY STATION
- DELIVERIES OF «CONVOY-P» SYSTEM FOR RAILWAY DIRECTION
- SUPPLY OF RADIO-ELECTRONIC EQUIPMENT FOR RAILWAY TRANSPORT

## PLANNED PRODUCTION

- RADIO-ELECTRONIC WARFARE AND RADIO-ELECTRONIC INTELLIGENCE
- DEVELOPMENT OF RADAR AND ANTENNA PLATFORMS
- ASSEMBLY OF UAVs







## MANUFACTURED PRODUCTS

- RTO OF THE TACTICAL MISSILE SYSTEM «TOCHKA-U»
- DESIGN AND PRODUCTION WORK FOR A MULTIPLE LAUNCH ROCKET SYSTEM
- SPECIALIZED EQUIPMENT FOR THE OIL INDUSTRY
- MOBILE DRILLING AND LIFTING RIGS
- SPECIAL SERVICE EQUIPMENT
- HEAT-EXCHANGE EQUIPMENT
- POWER EQUIPMENT
- RAILWAY EQUIPMENT
- INSTRUMENT CABLE PRODUCTS, TOOL PRODUCTION

## PLANNED PRODUCTION

- DEVELOPMENT OF A PROTOTYPE OF AN ANTI-TANK MISSILE SYSTEM
- REPAIR AND MODERNIZATION OF THE «STRELA» SYSTEM
- REPAIR AND MODERNIZATION OF MORTARS
- EXPANSION OF THE PRODUCT RANGE IN THE OIL AND GAS, RAILROAD SECTOR







# «ZENIT» URALSK PLANT»



## MANUFACTURED PRODUCTS

- BORDER PATROL BOATS
- PRODUCTION OF METAL STRUCTURES, VESSELS
- MISSILE AND ARTILLERY SHIPS
- DEVELOPMENT WORK "CREATION OF AN AUXILIARY (MULTIFUNCTIONAL) VESSEL

## PLANNED PRODUCTION

- MILITARY SHIP WITH A DISPLACEMENT OF APPROXIMATELY 300 TONS (OF THE "DUGONG" TYPE)
- MULTI-PURPOSE FIRE AND RESCUE VESSEL
- MULTI-FUNCTIONAL VESSEL WITH A DISPLACEMENT OF APPROXIMATELY 720 TONS
- MULTI-FUNCTIONAL SUPPLY VESSEL, EXCURSION AND PLEASURE BOATS, LAUNCHES, MOBILE ROBOTIC COMPLEXES
- **CONSTRUCTION OF A SHIPYARD IN THE KAZAKHSTAN SECTOR OF THE CASPIAN SEA**





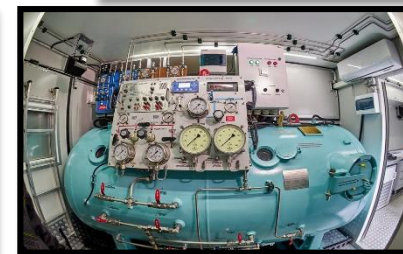


## MANUFACTURED PRODUCTS

- REPAIR AND MAINTENANCE WORKS FOR BOATS, SPECIAL PURPOSE VESSELS (SPVS), AND RIVER-SEA TUGBOATS (RSTS)
- SMALL PATROL BOATS
- BORDER PATROL BOATS
- MANUFACTURING OF METAL STRUCTURES AND VESSELS
- FACTORY REPAIRS FOR "SAPSAN" (FALCON) VESSELS 15, 16, AND 18
- MOBILE DIVING STATION, DIVING EQUIPMENT
- TECHNICAL MAINTENANCE OF INFLATABLE RESCUE RAFTS PSN-16MK, PSN-10
- PRODUCTION OF MARINE BUOYS, BEACONS, AND NAVIGATION EQUIPMENT.

## PLANNED PRODUCTION

- COASTAL MARINE BASE (PMB)
- RESCUE BOAT WITH CABIN AND OPEN DECK
- PRODUCTS AND SERVICES FOR CIVILIAN SHIPBUILDING (UNIVERSAL SHIPS, TUGS, FIREBOATS, ETC.), GRID DECKS, PATROL BOATS, SMALL WATERCRAFT, MARINE INFLATABLE TARGETS, NAVAL TRAINING SIMULATORS, TARGET-TRAINING COMPLEXES, UNMANNED UNDERWATER VEHICLES
- LARGE SHIPBOARD SHIELD





## MANUFACTURED PRODUCTS

### MAIN DIRECTIONS:

- R&D ON ARMAMENT OF BARRAGE AMMUNITION
- DEVELOPMENT OF NATIONAL MILITARY STANDARDS, REGULATORY DOCUMENTS, AND OTHER SERVICES
- SUPPORT OF EXPERIMENTAL DESIGN WORKS FOR ENTERPRISES
- SERVICES FOR ORGANIZING TESTS OF WEAPONS AND MILITARY EQUIPMENT AT TEST RANGES
- ANALYSIS OF AMS PRODUCT LINES, AMS MARKETS, ETC.
- TRAINING COURSES FOR THE DEFENSE INDUSTRY COMPLEX
- TACTICAL RECONNAISSANCE COMPLEX "SHAGALA-M"
- SMALL TARGET FOR SAM (SURFACE-TO-AIR MISSILE) SYSTEMS WITH THERMAL FLOW SIMULATION
- BARRAGE AMMUNITION
- ROBOTIC GROUND COMPLEX BASED ON A TRACKED PLATFORM

## PLANNED PRODUCTION

- ESTABLISHMENT OF A TRAINING CENTER FOR MILITARY STRUCTURES WITH VIRTUAL REALITY (VR) TECHNOLOGIES
- AIRCRAFT (HELICOPTER TYPE, VTOL(VERTICAL TAKEOFF AND LANDING), SMALL DRONE, KAMIKAZE)
- UNMANNED GROUND MODULE
- UNMANNED FIREFIGHTING COMPLEX







## MANUFACTURED PRODUCTS

- REGULAR MAINTENANCE OF THE C295M AIRCRAFT C+4Y-CHECK
- TECHNICAL SUPPORT FOR THE C295M AIRCRAFT
- C+8Y MAINTENANCE CHECK FOR THE C295M AIRCRAFT
- ROUTINE TECHNICAL SERVICING OF THE AN-72/AN-74 AIRCRAFT
- ASSEMBLY OF SKYLARK-1LEX UAV COMPLEXES
- REPAIR OF SU-25 AIRCRAFT.

## PLANNED PRODUCTION

- PLANNED MAINTENANCE OF THE C295M AIRCRAFT
- MASS ASSEMBLY OF ANKA UAVs
- COMPREHENSIVE SERVICING OF SU-30 AIRCRAFT
- LOCALIZATION OF ASSEMBLY PRODUCTION AND SERVICE FOR L39NG AND L-410 AIRCRAFT.





## MANUFACTURED PRODUCTS

- H130, H145, H125 HELICOPTERS
- REGULATORY WORKS (TECHNICAL MAINTENANCE) ON AIRBUS HELICOPTERS
- PREPARATION OF TECHNICAL PERSONNEL AND PILOTS



## PLANNED PRODUCTION

- EXPANSION OF EXPORT OF PRODUCTS AND SERVICES TO COUNTRIES IN BOTH FAR AND NEAR ABROAD (TAJIKISTAN, TURKMENISTAN, KYRGYZSTAN, MONGOLIA)
- SUPPLY OF H145 HELICOPTERS TO CENTRAL ASIA





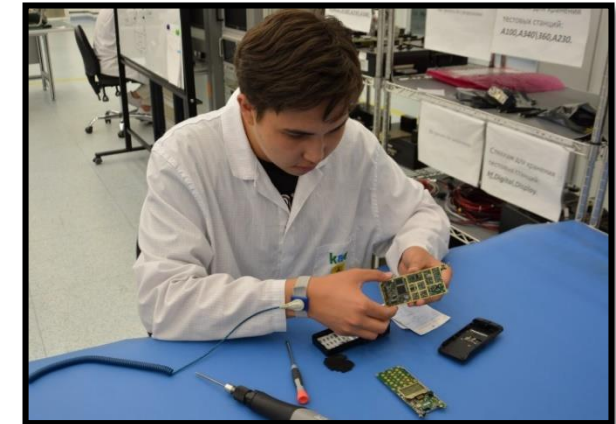


## MANUFACTURED PRODUCTS

- COMMUNICATION EQUIPMENT OF APCO-25 AND DMR STANDARDS
- NIGHT VISION MONOCULAR A-100, NIGHT VISION BINOCULARS A230, NIGHT VISION GOGGLES A340, NIGHT VISION GOGGLES A360
- PYTHON, BOA, THERMAL IMAGING SIGHT ATS-20, DAYTIME VISION SIGHT A941/A961
- SHARPEYE/FALCONEYE-MW, HANDHELD INTEGRATED ELECTRO-OPTICAL SENSOR SYSTEM
- SARP - REMOTELY CONTROLLED STABILIZED COMBAT PLATFORM
- VIPER LASER TARGET DESIGNATOR AND LOCATOR
- MOBILE SOFTWARE-TECHNICAL FIRE CONTROL SYSTEM FOR 122-MM D-30 HOWITZER BATTERIES (MPTK-A)
- SOFTWARE-DEFINED HF, VHF MILITARY RADIO STATIONS, RECONNAISSANCE AND SURVEILLANCE EQUIPMENT
- TECHNICAL MEANS OF BORDER PROTECTION, MIDAS ALARM SYSTEM
- PRODUCTION OF IVL DEVICES "BIOVENT"
- AUTOMATED ALERT SYSTEM
- DRONE ELECTRONIC COUNTERMEASURE SYSTEM "IHASAVAR"
- MINI THERMAL IMAGING SIGHT
- NIGHT VISION SIGHT A-360

## PLANNED PRODUCTION

- Situational awareness software MIRSAD
- 30mm stabilized remotely controlled combat module NEFER
- Integration of mobile reconnaissance-patrol complexes (MRPC) into combat vehicles
- Production of field tactical control ATCs DS200T, inter-network screens AG-102 and TAG-102
- Manufacturing of radio stations of "DMR Tier III" standard
- Manufacturing of signaling and voice devices (SSD). Manufacturing of X-ray control systems.





## MANUFACTURED PRODUCTS

- PRODUCTION OF HYDRAULIC COMPONENTS (HYDRAULIC CYLINDERS, VALVES, RELIEF VALVES, ETC.)
- MODERNIZATION AND REPAIR OF SPECIAL PRODUCTS (**TORPEDOES**)
- SPECIAL BARRIERS FOR EMERGENCY SITUATIONS
- SPARE PARTS FOR SPECIAL PRODUCTS
- COMBUSTION AUTOMATION PRODUCTS
- RAILWAY PRODUCTS
- PRODUCTION OF LINEAR SUSPENSION FITTINGS
- VALVES, BALL VALVES, FLANGES, ROLLING MILLS, CIRCUIT BREAKERS

## PLANNED PRODUCTION

- PRODUCTION OF MINES (MDM-1,2,3)
- MODERNIZATION OF TORPEDO 53-65K, MDS-2510
- COASTAL TORPEDO COMPLEX FOR NAVAL FORCES OF THE REPUBLIC OF KAZAKHSTAN
- DEVELOPMENT OF A NEW 324MM TORPEDO FOR THE NAVAL FORCES OF THE REPUBLIC OF KAZAKHSTAN
- MANUFACTURING OF A HYBRID MULTISYSTEM FOR CLEANING AND DISINFECTING VIRUSES







## MANUFACTURED PRODUCTS

- INDUSTRIAL DISPOSAL OF AMMUNITION

## PLANNED PRODUCTION

- Expansion of the range of disposed ammunition (ammunition containing hexogen up to 152 mm caliber, engineering ammunition)
- Utilization of unused military property in the form of ammunition using own funds to generate profit from the sale of processing products (metal, powder, TNT)





## MANUFACTURED PRODUCTS

- PRODUCTION OF CARTRIDGES 5.45X39 MM
- PRODUCTION OF CARTRIDGES 7.62 MM
- PRODUCTION OF CARTRIDGES 9X18 MM
- PRODUCTION OF CARTRIDGES 9X19 MM

## PLANNED PRODUCTION

- LAUNCH OF A PRODUCTION LINE FOR RIFLE CARTRIDGES (5.45X39 MM, 7.62X54R)
- EXPANSION OF THE RANGE OF MANUFACTURED CARTRIDGES (NATO STANDARD CARTRIDGES CALIBERS 308, 338, 375)





A military parade featuring tanks with long cannons in a city square, with a clock tower in the background. The scene is captured in a perspective view, with the tanks moving towards the viewer. The background shows a large, ornate building with a prominent clock tower and a crowd of spectators. The overall atmosphere is one of a significant public event.

# *PERSPECTIVE PROJECTS*



# DEVELOPMENT OF AN AVIATION TRAINING CENTER IN ASTANA

## Main goals of the project

- Organization of reception, release and provision of airport services for charter flights and business jet aircraft
- Organization of interdistrict and interregional air traffic
- Creation of an airline/air taxi in the future
- Preparation for the creation of a second airfield in Astana
- Providing services for geodetic and agricultural work (UAV / AN-2) and entertainment services (sky dive)
- Training and retraining of aviation specialists (flight and ITS, UAV pilots)

## Aerodrome

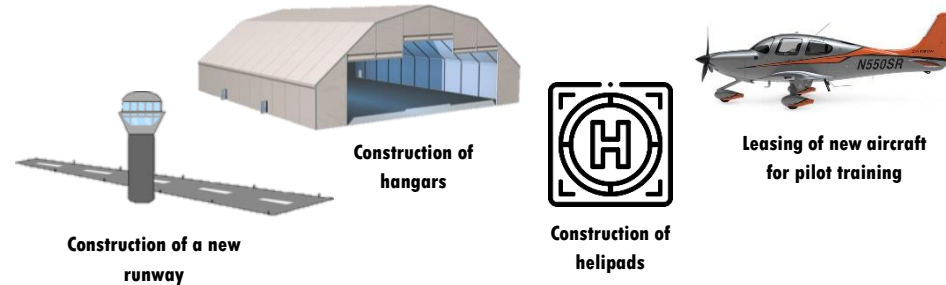
- ✓ Three runways (unpaved), with dimensions of 1200m x 65m, 585m x 65m and 560m x 55m. for aircraft with a maximum take-off weight of up to 7 tons .
- ✓ The airfield has the following infrastructure facilities:
  - Two aircraft hangars; - Learning Campus;
  - Control and dispatch center;
  - Warehouses.



## Certificates / licenses

- ✓ State license (unlimited term), issued in 2008 to engage in educational activities,
  - majoring in Traffic Control and Operation of Air Transport.
- ✓ Aviation training center certificate allowing you to:
  - initial training of aviation personnel;
  - retraining of aviation personnel.
- ✓ Air navigation service provider certificate.

## Update airfield



## Location



## Zholaman airfield



## Aviation Park



**6 aircraft**  
**TL-2000**  
**Sting Carbon**

**2 planes**  
**TL-2000 Sting**  
**S4**

**1 plane**  
**TL-3000 +**  
**1 plane Zlin Z-242L**





# SHIPYARD BUILDING (DUAL-PURPOSE MANUFACTURING AND SERVICE)



## Areas of planning production

### Manufactured products

- Ships for the Ministry of Defense of the RK, the Ministry of Emergency Situations of the RK, the National Security Committee of the RK, etc.;
- Multipurpose vessels;
- Boats;
- Civil products;
- Provision of ship maintenance services;
- Production of components

### Vessel production



Missile and artillery boats



Barges  
(from 15 to 25 million \$)



Tankers  
(from 15 to 25 million \$)



### Location



Preliminary cost project  
up to \$ 250 million



# INDUSTRIAL PARKS KAZAKHSTAN ENGINEERING

NC «KAZAKHSTAN ENGINEERING» JSC together with local executive bodies and the Industrial Development Fund will develop a program for financing small and medium-sized businesses



Attracting local investors by:  
Transfer on behalf of NC «KAZAKHSTAN ENGINEERING» JSC of land plots and/or workshops.



In turn, the investor invests in the construction / repair of production facilities.



NC «KAZAKHSTAN ENGINEERING» JSC provides assistance in attracting tenants (SMB)

- Small and medium-sized businesses are provided with a ready-made production site with a preferential rental rate
- SMBs can apply for a financial loan at a preferential rate
- On the part of JSC “NC “KAZAKHSTAN ENGINEERING” it is possible to provide off-take contracts

## EFFECT:

CONTRIBUTING TO THE FORMATION OF A HIGHLY EFFICIENT ECONOMY, PROVIDING SUPPORT TO BUSINESSES TO ENSURE THE ECONOMIC AND SOCIAL WELL-BEING OF THE CITY, CREATING A FIELD OF GREAT OPPORTUNITIES FOR BUSINESS DEVELOPMENT IN ASTANA





There is a demand in gunpowder production in the country, although the necessary raw materials (**cotton fiber, nitric acid, and sulfuric acid**) are available.

Foreign gunpowder manufacturers are being considered for potential technology transfer. An essential requirement is assistance with the export of the manufactured products.





# Casting using gasifiable patterns



## Advantages of gasified casting:

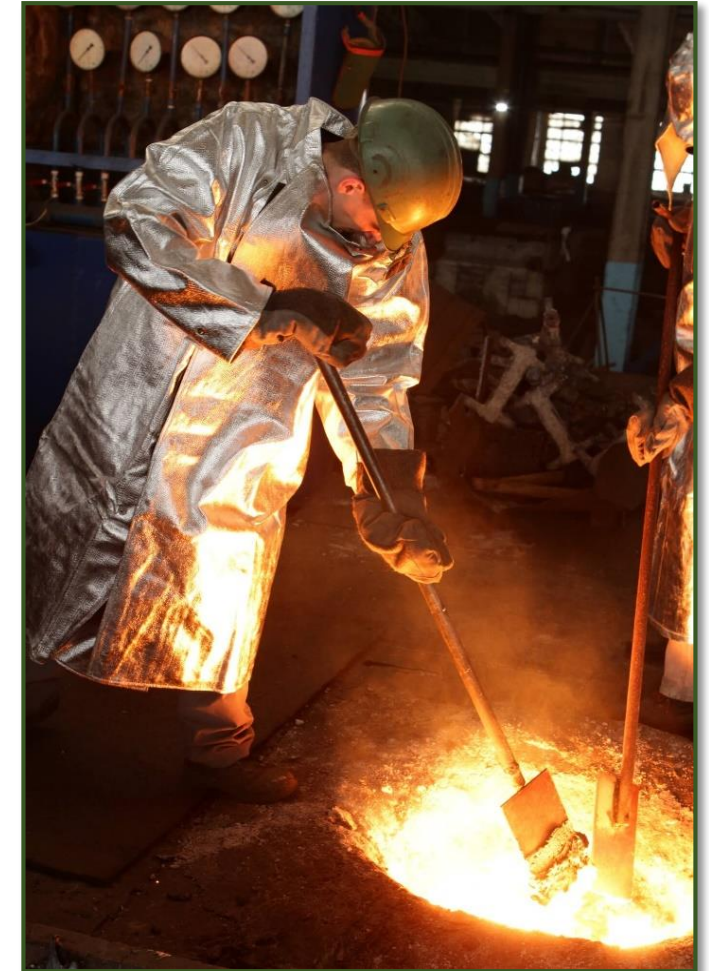
- Reduction in the weight of cast products by 15-30%;
- Increase in metal utilization rate up to 90%;
- Reduction in auxiliary material consumption by up to 90%;
- Reduction in labor costs by 3 times;
- Shortening of the casting production cycle;
- Reduction in capital costs for equipment;
- Elimination of core-making and mixing equipment from the production process;
- Use of dry quartz sand as a material and strengthening of molds with vacuum;
- Lower personnel qualification requirements;
- Reduction in the number of technological operations;
- Use of inexpensive tooling;
- Significant improvement in working conditions;
- Reduction in the volume of mechanical processing of castings by 40%;
- Casting accuracy up to 9th grade;
- Surface roughness up to 20  $\mu\text{m}$ ;
- Reduction in the weight of cast products by 30%.



**Preliminary cost  
project  
up to \$ 3,6 million**

**Within the framework of the project, the following types of products are planned for release:**

- Wedges
- Counterweights





The background of the slide is a dark, semi-transparent image of a military exhibition. It features several large tanks and cannons, with a crowd of people visible in the distance. A white rectangular box is centered over the image, containing contact information.

## ***Contacts:***

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***Thank you for your attention!***